

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|------------------------|------|-----|
| CODE | DATE | NTD |
| ANKOM 12 SEP 2005 GIPS | | |
| DATA ENTERED | | |
| FINAL | | |

| | | |
|---|--|---|
| Applicant's or agent's file reference 101441-1WO | FOR FURTHER ACTION | see Form PCT/ISA/220 as well as, where applicable, item 5 below. |
| International application No. PCT/GB2005/000873 | International filing date (day/month/year) 07/03/2005 | (Earliest) Priority Date (day/month/year) 10/03/2004 |
| Applicant ASTRAZENECA AB | | |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the International application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the International application, see Box No. I.

2. Certain claims were found unsearchable (See Box II).

3. Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this International search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/GB2005/000873

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - in written format
 - in computer readable form
 - c. time of filing/furnishing
 - contained in the international application as filed
 - filed together with the international application in computer readable form
 - furnished subsequently to this Authority for the purpose of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2005/000873

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N9/72 C12N15/58 C12N15/62 C12Q1/37

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBL, WPI Data, PAJ, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|---|-----------------------|
| X | <p>ZESLAWSKA E ET AL: "Crystals of the urokinase type plasminogen activator variant betac-uPA in complex with small molecule inhibitors open the way towards structure-based drug design" JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 301, no. 2, 11 August 2000 (2000-08-11), pages 465-475, XP004480446 ISSN: 0022-2836 cited in the application abstract page 466, right-hand column page 473, right-hand column - page 474, left-hand column</p> <p>-----</p> <p>-/-</p> | 1-32 |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Z document member of the same patent family

Date of the actual completion of the International search

31 August 2005

Date of mailing of the international search report

12/09/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Huse, I

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2005/000873

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------------|
| X | TANG W ET AL: "An Efficient System for Production of Recombinant Urokinase-Type Plasminogen Activator" PROTEIN EXPRESSION AND PURIFICATION, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 11, no. 3, December 1997 (1997-12), pages 279-283, XP004459933 ISSN: 1046-5928 the whole document | 1-32 |
| X | WO 01/55174 A (OKLAHOMA MEDICAL RESEARCH FOUNDATION) 2 August 2001 (2001-08-02) abstract page 5, line 12 - line 26 page 6, line 3 - line 13 table 1 | 1-26 |
| P,X | WO 2004/094344 A (PROTEOMTECH, INC; LIN, XINLI) 4 November 2004 (2004-11-04) the whole document | 1,3,4, 6-11,15, 18-27 |
| A | HANSEN A P ET AL: "Solution structure of the amino-terminal fragment of urokinase-type plasminogen activator." BIOCHEMISTRY. 26 APR 1994, vol. 33, no. 16, 26 April 1994 (1994-04-26), pages 4847-4864, XP002342850 ISSN: 0006-2960 abstract page 4848, left-hand column | |
| A | HAJDUK P J ET AL: "Identification of novel inhibitors of urokinase via NMR-based screening." JOURNAL OF MEDICINAL CHEMISTRY. 19 OCT 2000, vol. 43, no. 21, 19 October 2000 (2000-10-19), pages 3862-3866, XP002341167 ISSN: 0022-2623 cited in the application page 3862, right-hand column, paragraph 1 page 3864, right-hand column, paragraph 2 | |
| A | EP 0 866 967 A (ABBOTT LABORATORIES) 30 September 1998 (1998-09-30) cited in the application paragraph '0012! example 1 | |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2005/000873

| Patent document cited in search report | Publication date | Patent family member(s) | | Publication date |
|--|------------------|-------------------------|---------------|------------------|
| WO 0155174 | A 02-08-2001 | AU | 2464901 A | 07-08-2001 |
| | | AU | 5771500 A | 31-01-2001 |
| | | AU | 5773500 A | 31-01-2001 |
| | | CA | 2374346 A1 | 04-01-2001 |
| | | CA | 2374610 A1 | 04-01-2001 |
| | | CA | 2397773 A1 | 02-08-2001 |
| | | CN | 1379819 A | 13-11-2002 |
| | | EP | 1196609 A2 | 17-04-2002 |
| | | EP | 1194449 A2 | 10-04-2002 |
| | | EP | 1255769 A2 | 13-11-2002 |
| | | EP | 1496124 A1 | 12-01-2005 |
| | | JP | 2003503072 T | 28-01-2003 |
| | | JP | 2003506322 T | 18-02-2003 |
| | | JP | 2003523363 T | 05-08-2003 |
| | | WO | 0100663 A2 | 04-01-2001 |
| | | WO | 0100665 A2 | 04-01-2001 |
| | | WO | 0155174 A2 | 02-08-2001 |
| | | US | 2003199676 A1 | 23-10-2003 |
| | | US | 6545127 B1 | 08-04-2003 |
| | | US | 2001044521 A1 | 22-11-2001 |
| | | US | 2004220079 A1 | 04-11-2004 |
| | | US | 2002164760 A1 | 07-11-2002 |
| | | US | 2002049303 A1 | 25-04-2002 |
| | | US | 2004167075 A1 | 26-08-2004 |
| | | US | 2002115600 A1 | 22-08-2002 |
| WO 2004094344 | A 04-11-2004 | US | 2004265298 A1 | 30-12-2004 |
| | | WO | 2004094344 A2 | 04-11-2004 |
| | | CN | 1537939 A | 20-10-2004 |
| EP 0866967 | A 30-09-1998 | US | 5698401 A | 16-12-1997 |
| | | AT | 189063 T | 15-02-2000 |
| | | AU | 701810 B2 | 04-02-1999 |
| | | AU | 7732896 A | 05-06-1997 |
| | | CA | 2237343 A1 | 22-05-1997 |
| | | DE | 69606324 D1 | 24-02-2000 |
| | | DE | 69606324 T2 | 06-07-2000 |
| | | DK | 866967 T3 | 26-06-2000 |
| | | EP | 0866967 A1 | 30-09-1998 |
| | | GR | 3032361 T3 | 27-04-2000 |
| | | JP | 3032301 B2 | 17-04-2000 |
| | | JP | 11513498 T | 16-11-1999 |
| | | AT | 261581 T | 15-03-2004 |
| | | DE | 69631842 D1 | 15-04-2004 |
| | | EP | 0981049 A1 | 23-02-2000 |
| | | ES | 2143793 T3 | 16-05-2000 |
| | | PT | 866967 T | 28-04-2000 |
| | | WO | 9718471 A1 | 22-05-1997 |
| | | US | 5804390 A | 08-09-1998 |